<1;DNA;Artificial Sequence>
TAACAATAGGCCGGCCACCCCTTC

<2;DNA;Artificial Sequence>
GAGTTTTTGTTCTGCGGC

<3;DNA;Artificial Sequence>
TTTAATCATCTGCAGTACCGGGAGCTC

<4;DNA;Artificial Sequence>
TTCATTCTTGCTAGCTCCTGGGAGAGGC

<5;DNA;Artificial Sequence>
CCG GCC ACC CCT TC(C AR/A VY)C TCA AC(C AR/A VY)CGG GAC CAG CTG GAA AG

<6;DNA;Artificial Sequence>
GGA TGA GGT CCG GCA A(YT G/RB T) (YT G/RB T)AA T(YT G/RB T)GG TGC T CT TCA GCT T(YT G/RB T)GA
GCT CCC GGT ACT GCA GG

<7; DNA; Artificial Sequence>
CAA CCA GAC GGC CAC G(CA R/AV Y) AC GGG CAG GCT A(CA R/AV Y) AG CTC C(CA R/AV Y) CC CAA CCT CCA GAA
CAT CC

<8;DNA;Artificial Sequence>
CCG CCT CCC GCA C(YT G/RB T)CT TCA C(YT G/RB T)GG CCT CTA GGT CTG GCA C

<9;DNA;Artificial Sequence>
CCT GCA GTA CCG GGA GCT C(CA R/AV Y)AA GCT GAA GAG CAC C (CA 煉/AV 炽)AT T(CA R/AV Y) (CA R/AV Y)TT GCC GGA CCT CAT CC

<10;DNA;Artificial Sequence>
GGA TGT TCT GGA GGT TGG G(YTG/RBT)GG AGC T(YTG/RBT)TA GCC TGC CCG T(YTG/RBT)CG TGG CCG TCT GGT
TG

<11;DNA;Artificial Sequence>
GTG CCA GAC CTA GAG GCC (CAR/AVY) GTG AAG (CAR/AVY) GTG CGG G AG GCG G

<12;DNA;Artificial Sequence>
AAA UAC AAC AAU AAA ACG CCA CAU CUU GCG

<13;DNA;Artificial Sequence>
TAA CAC GAC AAA GCG CAA GAT GTG GCG T

<14;DNA;Artificial Sequence>
AAA TAC AAC AAT AAA ACG CCA CAT CTT GCG

<15;DNA;Artificial Sequence>
TTCATTCTTGCTAGCTCCTGGGAGAGGC

<16;DNA;Artificial Sequence>
GAG AAG ATC CTG CAG TAC CGG GAG C

<17;DNA;Artificial Sequence>

GACCAAC ATCAAGACTGCC

<18;DNA;Artificial Sequence>

TTGGCCAGGAACTTGTCC

<19; DNA; Thermus aquaticus>

GGGCCGCCCTTTCCGAGAGGCTCTTCGCCAACCTGTGGGGGAGGCTTGAGGGGGAGGAGGCTCCTTTGGCTTTACCGGGAGGTGGAGAGGCCCC GCCTCGAGGCCGAGGTCTTCCGCCTGGCCGGCCACCCCTTCAACCTCAACTCCCGGGACCAGCTGGAAAGGGTCCTCTTTGACGAGCTAGGGCTTC ${\tt CCGCCATCGGCAGAGACGGCAAGCGCTCCACCAGCGCCGCCGTCCTGGAGGCCCTTCGCGAGGCCCACCCCATCGTGGAGAAGATCC}$ TGCAGTACCGGGAGCTCACCAAGCTGAAGAGCACCTACATTGGCCCCTTGCCGGACCTCATCCACCCCAGGACGGGCCGCCTCCACACCCGCTTCA CCTTCATCGCCGAGGAGGGGTGGCTATTGGTGGCCCTGGACTATAGCCAGATAGAGCTCAGGGTGCTGGCCCACCTCTCCGGCGACGAGAACCTGA TCCGGGTCTTCCAGGAGGGGCGGGATATCCACACGGAGACCGCCAGCTGGATGTTCGGCGTCCCCGGGAGGCCGTGGACCCCCTGATGCGCCGGG CGGCCAAGACCATCAACTTCGGGGTCCTCTACGGCATGTCGGCCCACCGCCTCTCCCAGGAGCTAGCCATCCCTTACGAGGAGGCCCAGGCCTTCA TTGAGCGCTACTTTCAGAGCTTCCCCAAGGTGCGGGCCTGGATTGAGAAGACCCTGGAGGAGGGTAGGAGGCGGGGGTACGTGGAGACCCTCTTCG GCCGCCGCCGCTACGTGCCAGACCTAGAGGCCCGGGTGAAGAGCGTGCGGGAGGCGGCCGAGCGCATGGCCTTCAACATGCCCGTCCAGGGCACCG TCGAGGCCCCAAAAGAGGGGGCGGAGGCCGTGGCCCGGCTGGCCAAGGAGGTCATGGAGGGGGTGTATCCCCTGGCCGTGCCCCTGGAGGTGGAGG TGGGGATAGGGAGGACTGGCTCTCCGCCAAGGAGGCGGCCGCACTGGTGCCGCGC

<20:prt/1:Thermus aquaticus>

MASGGGCCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIGPLPDLIHPRTGRLHTRFN QTATATGRLSSSDPNLQNVPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAFNMPVQGTA ADLTKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDWLSAKEAAALVPR

<21; DNA; Thermus aquaticus>

<22;prt/1;Thermus aquaticus>

MASGGGCCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLGALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFN QTATATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVTLDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAFNMPVQGTA ADLMKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDRLSAKEAAALVPR

<23; DNA; Thermus aquaticus>

TGCAGTACCGGGAGCTCAACAAGCTGAAGAGCACCCAAATTACTCAGTTGCCGGACCTCATCCACCCCAGGACGGCCGCCTCCACACCCGCTTCA CCTTCATCGCCGAGGAGGGGGGGGGCTATTGGTGGCCCTGGACTATAACCAGATAGAGCTCAGGGTGCTGGCCCACCTCTCCGGCGACGAGAACCTGA TCCGGGTCTTCCAGGAGGGCGGGACATCCACACGGAGACCGCCAGCTGGATGTTCGGCGTCCCCGGGAGGCCGTGGACCCCCTGATGCGCCGGG CGGCCAAGACCATCAACTTCGGGGTCCTCTACGGCATGTCGGCCCACCGCCTCTCCCAGGAGCTAGCCATCCCTTACGAGGAGGCCCAGGCCTTCA TTGAGCGCTACTTTCAGAGCTTCCCCAAGGTGCGGGCCTGGATTGAGAAGACCCTGGAGGAGGGCAGGAGGCGGGGGTACGTGGAGACCCTCTTCG GCCGCCGCCGCTACCTGCCAGACCTAGAGGCCCAGGTGAAGAATGTGCGGGAGGCCGCAGGGCCAGGGCCTTCAACATGCCCGTCCAGGGCACCG CCGCCGACCTCATGAAGCTGGCTATGGTGAAGCTCTTCCCCAGGCTGGAGGAAATGGGGGCCAGGATGCTCCTTCAGGTCCACGACGACGAGCTGGTCC TCGAGGCCCCAAAAGAGGGGGGGGGGGCCGTGGCCCGGCTGGCCAAGGAGGTCATGGAGGGGGGTGTATCCCCTGGCCGTGCCTCTGGAGGTGGAGG TGGGGATAGGGGAGGACTGGCTCTCCGCCAAGGAGGCGGCCGCACTGGTGCCGCGC

<24;prt/1;Thermus aquaticus>

MASGGGGCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFQLNQRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELNKLKSTQITQLPDLIHPRTGRLHTRFN QTATQTGRLSSSQPNLQNIPVRTPLGQRIRRTFIAEEGRLLVALDYNQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYLPDLEAQVKNVREAAERRAFNMPVQGTA ADLMKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDWLSAKEAAALVPR

<25; DNA; Thermus aquaticus>

 ${\tt CCATGGCCTCTGGTGGCGGTGGCGGTGGCGGCGCCCCAAGGCCCTGGAGGAGGCCCCTGGCCCCGCGGAAGGGGCCTTCGTGGGCT}$ CCCTCAGGGACCTGAAGGAGGCGCGGGGGCTTCTCGCCAAAGACCTGAGCGTTCTGGCCTGAGGGAAGGCCTTGGCCTCCCGCCGGCGACGACC GGGCCGCCCTTTCCGAGAGGCTCTTCGCCAACCTGTGGGGGAGGCCTTGAGGGGGAGGAGGAGGACCTCCTTTGGCTTTACCGGGAGGTGGAGAGGCCCC TTTCCGCTGTCCTGGCCCACATGGAGGCCACGGGGGTGCGCCTGGACGTGGCCTATCTCAGGGCCTTGTCCCTGGAGGTGGCCGAGGAGATCGCCC GCCTCGAGGCCGAGGTCTTCCGCCTGGCCGGCCACCCCTTCAACCTCAACTCCCGGGACCAGCTGGAAAGGGTCCTCTTTGACGAGCTAGGGCTTC CCGCCATCGGCAAGACGGAGAAGACCGGCAAGCGCTCCACCAGCGCCGCCGTCCTGGAGGCCCTCCGCGAGGCCCACCCCATCGTGGAGAAGATCC TGCAGTACCGGGAGCTCACCAAGCTGAAGAGCACCTACATTGACCCCTTGCCGGACCTCATCCACCCCAGGACGGGCCGCCTCCACACCCGCTTCA ACCAGACGCCACGGCCACGGCCAGGCTAAGTAGCTCCGATCCCAACCTCCAGAACATCCCCGTCCGCACCCCGCTTGGGCAGAGGATCCGCCGGG CCTTCATCGCCGAGGAGGGGTGCTATTGGTGGCCCTGGACTATAGCCAGATAGAGCTCAGGGTGCTGGCCCACCTCTCCGGCGACGAGAACCTGA TCCGGGTCTTCCAGGAGGGGGGGGACATCCACACGGAGACCGCCAGCTGGATGTTCGGCGTCCCCGGGAGGCCGTGGACCCCCTGATGCGCCGGG CGGCCAAGACCATCAACTTCGGGGTCCTCTACGGCATGTCGGCCCACCGCCTCTCCCAGGAGCTAGCCATCCCTTACGAGGAGGCCCAGGCCTTCA TTGAGCGCTACTTTCAGAGCTTCCCCAAGGTGCGGGCCTGGATTGAGAAGACCCTGGAGGGGGGGAGGCGGGGGGTACGTGGAGACCCTCTTCG GCCGCCGCCGCTACGTGCCAGACCTAGAGGCCCGGGTGAAGAGCGTGCGGGAGGCGGCGCGAGCGCATGGCCTTCAACATGCCCGTCCAGGGCACCG CCGCCGACCTCATGAAGCTGGCTATGGTGAAGCTCTTCCCCAGGCTGGAGGAAATGGGGGCCAGGATGCTCCTTCAGGTCCACGACGACGACGTCGTCC TCGAGGCCCCAAAAGAGGGCGGGGGCCGTGGCCCGGCTGGCCAAGGAGGTCATGGAGGGGGTGTATCCCCTGGCCGTGCCCTTGGAGGTGGAGG TGGGGATAGGGGAGGACTGCCTCTCCGCCAAGGAGGCGGCCGCACTGGTGCCGCGC

<26;prt/1;Thermus aquaticus>

MASGGGGCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFN QTATATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAFNMPVQGTA ADLMKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKERAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDWLSAKEAAALVPR

<27;DNA;Thermus aquaticus>

<28;prt/1;Thermus aquaticus>

MASGGGGCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAVVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFN QTATATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKSINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAFNMPVQGTA ADLMKLAMVKLSPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDRLSAKEAAALVPR

<29; DNA; Thermus aquaticus>

TTGTGCTTTCCCGCAAGGAGCCCATGTGGGCCGATCTTCTGGCCCTGGCCGCCGCCGCGGGGGCCCGGGGTCCACCGGGCCCCCGAGCCTTATAAAG GGGCCGCCCTTTCCGAGAGGCTCTTCGCCAACCTGTGGGGGAGGCTTGAGGGGGAGAGAGGCTCCTTTGGCTTTACCGGGAGGTGGAGAGGCCCC GCCTCGAGGCCGAGGTCTTCCGCCTGGCCGGCCACCCCTTCAACCTCAACTCCCGGGACCAGCTGGAAAGGGTCCTCTTTGACGAGCTAGGGCTTC TGCAGTACCGGGAGCTCACCAAGCTGAAGAGCACCTACATTGACCCCTTGCCGGACCTCATCCACCCCAGGACGGCCGCCTCCACACCCGCTTCA TCCGGGTCTTCCAGGAGGGGGGGACATCCACACGGAGACCGCCAGCTGGATGTTCGGCGTCCCCGGGAGGCCGTGGACCCCTGATGCGCCGGG CGGCCAAGACCATCAACTTCGGGGTCCTCTACGGCATGTCGGCCCACCGCCTCTCCCAGGAGCTAGCCATCCCTTACGAGGAGGCCCAGGCCTTCA CCGCCGACCTCATGAAGCTGGCTATGGTGAAGCTCTTCCCCAGGCTGGAGGAAATGGGGGCCAGGATGCTCCTTCAGGTCCACGACGACGAGCTGGTCC TCGAGGCCCCAAAAGAGGGGGCGGAGGCCGTGGCCCGGCTGGCCAAGGAGGTCATGGAGGGGGTGTATCCCCTGGCCGTGCCCCTGGAGGTGAAGG TGGGGATAGGGAGGACTGGCTCTCCGCCAAGGAGGCGGCCGCACTGGTGCCGCGC

<30;prt/1;Thermus aquaticus>

MASGGGGCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR

LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFN QTVTÄTGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAYNMPVQGTA ADLMKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDWLSAKEAAALVPR

<31;DNA;Thermus aquaticus>

TTGTGCTTTCCCGCAAGGAGCCCATGTGGGCCGATCTTCTGGCCCTGGCCGCCGCCAGGGGGGCCCGGGGTCCACCGGGCCCCCGAGCCTTATAAAG GGGCCGCCCTTTCCGAGAGGCTCTTCGCCAACCTGTGGGGGAGGCTTGAGGGGGAGGAGGAGGCTCCTTTGGCTTTACCGGGAGGTGGAGAGGCCCC GCCTCGAGGCCGAGGTCTTCCGCCTGGCCGGCCACCCCTTCAACCTCAACTCCCGGGACCAGCTGGAAAGGGTCCTCTTTGACGAGCTAGGGCTTC CCGCCATCGGCAAGACGGAGAAGACCGGCAAGCGCTCCACCAGCGCCGCCGTCCTGGAGGCCCTCCGCGAGGCCCACCCCATCGTGGAGAAGATCC TGCAGTACCGGGAGCTCACCAAGCTGAAGAGCACCTACATTGACCCCTTGCCGGACCTCATCCACCCCAGGACGGGCCGCCTCCACACCCGCTTCA ACCAGACGCCACGGCCACGGCCAGGCTAAGTAGCTCCGATCCCAACCTCCAGAACATCCCCGTCCGCACCCCGCTTGGGCAGAGGATCCGCCGGG $\tt CCTTCATCGCCGAGGAGGGGTGGCTATTGGTGGCCCTGGACTATAGCCAGATAGAGCTCAGGGTGCTGGCCCACCTCTCCGGCGACGAGAACCTGA$ CGGCCAAGACCATCAACTTCGGGGTCCTCTACGGCATGTCGGCCCACCGCCTCTCCCAGGAGCTAGCCATCCCTTACGAGGAGGCCCAGGCCTTCA TTGAGCGCTACTTTCAGAGCTTCCCCAAGGTGCGGGCCTGGATTGAGAAGACCCTGGAGGAGGGCAGGAGGCGGGGGTACGTGGAGACCCTCTTCG TGGGGATAGGGAGGACCGGCTCTCCGCCAAGGAGGCGGCCGCACTGGTGCCGCGC

<32;prt/1;Thermus aquaticus>

MASGGGCCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFN QTATATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAFNMPVQGTA ADLMKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDRLSAKEAAALVPR

<33;DNA;Thermus aquaticus>

<34;prt/1;Thermus aquaticus>

MASGGGGCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFN QTATATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFLSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERKAFNMPVQGTA ADLMKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVLLEVEVGIGEDWLSAKEAAALVPR

<35; DNA; Thermus aquaticus>

GGGCCGCCCTTTCCGAGAGGCTCTTCGCCAACCTGTGGGGGAGGCTTGAGGGGGAGGAGGAGGCTCCTTTGGCTTTACCGGGAGGTGGAGAGGCCCC TTTCCGCTGTCCTGGCCCACATGGAGGCCACGGGGGTGCGCCTGGACGTGGCCTATCTCAGGGCCTTGTCCCTGGAGGTGGCCGAGGAGATCGCCC GCCTCGAGGCCGAGGTCTTCCGCCTGGCCGGCCACCCCTTCAACCTCAACTCCCGGGACCAGCTGGAAAGGGTCCTCTTTGACGAGCTAGGGCTTC TGCAGTACCGGGAGCTCACCAAGCTGAAGAGCACCTACATTGACCCCTTGCAGGACCTCATCCACCCCAGTACGGGCCGCCTCCACACCCGCTTCA CCTTCATCGCCGAGGAGGGGTGGCTATTGGTGGCCCTGGACTATAGCCAGATAGAGCTCAGGGTGCTGGCCCACCTCTCCGGCGACGAGAACCTGA TTGAGCGCTACTTTCAGAGCTTCCCCAAGGTGCGGGCCTGGATTGAGAAGACCCTAGAGGAGGGCAGGAGGCGGGGGTACGTGGAGACCCTCTTCG TGGGGATAGGGGAGGATTGGCTCTCCGCCAAGGAGGCGGCCGCACTGGTGCCGCGC

<36;prt/1;Thermus aquaticus>

MASGGGGCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLQDLIHPSTGRLHTRFN QTATATGRLSSSDPNLQNIPVRTPLGGRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA

AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSEREAAERMAYNMPVQGTA ADLMKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEAEVGIGEDWLSAKEAAALVPR

<37;DNA;Thermus aquaticus>

 ${\tt CCATGGCCTCTGGTGGCGGTGGCGGTGGCGGCGCCCCAAGGCCCTGGAGGAGGCCCCTGGCCCCGCCGGAAGGGGCCTTCGTGGGCT}$ TTGTGCTTTCCCGCAAGGAGCCCATGTGGGCCGATCTTCTGGCCCTGGCCGCCGCCGGGGGGGCCGGGTCCACCGGGCCCCCGAGCCTTATAAAG GGGCCGCCCTTTCCGAGAGGCTCTTCGCCAACCTGTGGGGGAGGCTTGAGGGGGAGGAGAGGCTCCTTTGGCTTTACCGGGAGGTGGAGAGGCCCC TTTCCGCTGTCCTGGCCCACATGGAGGCCACGGGGGTGCGCCTGGACGTGGCCTATCTCAGGGCCTTGTCCCTGGAGGTGGCCGAGGAGATCGCCC GCCTCGAGGCCGAGGTCTTCCGCCTGGCCGGCCACCCCTTCAACCTCAACTCCCGGGACCAGCTGGAAAGGGTCCTCTTTGACGAGCTAGGGCTTC TGCAGTACCGGGAGCTCACCAAGCTGAAGAGCACCTACATTGACCCCTTGCCGGACCTCATCCACCCCAGGACGGGCCGCCTCCACACCCGCTTCA ACCAGACGGCCACGGCCACGGCCAGGCTAAGTAGCTCCGATCCCAACCTCCAGAACATCCCCGTCCGCACCCCGCTTGGGCAGAGGATCCGCCGGG CGGCCAAGACCATCAACTTCGGGGTCCTCTACGGCATGTCGGCCCACCGCCTCTCCCAGGAGCTAGCCATCCCTTACGAGGAGGCCCAGGCCTTCA TGGGGATAGGGGAGGACTGCTCTCCGCCAAGGAGGCGGCCGCACTGGTGCCGCGC

<38;prt/1;Thermus aquaticus>

MASGGGGCGGGSPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDP MLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIAR LEAEVFRLAGHPFNLNSRDQLERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRLHTRFN QTATATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRA AKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERYFQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAFNMPVQGTA ADLVKLAMVKLFPRLEEMGARMLLQVHDELVLEAPKEGAEAVARLAKEVMEGVYPLAVPLEVEVGIGEDWLSAKEAAALVPR

<39;PRT/1;Artificial Sequence>
MASGGGGCGGGG

<40;PRT/1;Artificial Sequence>

<41;PRT/1;Artificial Sequence>
MKYLLPTAAAGLLLLAAQPAMA

<42;PRT/1;Artificial Sequence>
MKTLLAMVLVGLLLLPPGPSMA

<43;PRT/1;Artificial Sequence>
MRGLLAMLVAGLLLLPIAPAMA

<44;PRT/1;Artificial Sequence>
MRRLLVIAAGLLLLLAPPTMA

<45;DNA;Artificial Sequence>
GCGGCCGCACTGGTGCCGCGCGGCAGCCTCGAG

<46;PRT/1;Homo sapiens>

ADQL TEEQIAEFKE AFSLFDKDGD GTITTKELGT VMRSLGQNPT EAELQDMINE VDADGNGTID FPEFLTMMAR KMKDTDSEEE IREAFRVFDK DGNGYISAAE LRHVMTNLGE KLTDEEVDEM IREADIDGDG QVNYEEFVQM MTAK

<47:PRT/1;Artificial Sequence>
QVQLQQSGPE DVKPGASVKI SCKASGYTFT DYYMNWVKQS PGKGLEWIGD
INPNNGGTSY NQKFKGRATL TVDKSSSTAY MELRSLTSED SSVYYCESQS
GAYWGQGTTV TVSA

<48;PRT/1;Artificial Sequence>
GGGGSGGGGS GGGGSGGGGS

<49;PRT/1;Artificial Sequence>
DYKDILMTQT PSSLPVSLGD QASISCRSSQ SIVHSNGNTY LEWYLQKPGQ
SPKLLIYKVS NRFSGVPDRF SGSGSGTDFT LKISRVEAED LGVYYCFQGS
HVPFTFGSGT KLEIKR

<50;PRT/1;Thermus thermophilus>

MEAMLPLFEPKGRVLLVDGHHLAYRTFFALKGLTTSRGEPVQAVYGFAKSLLKALKEDGYKAVFVVFDAKAPSFRHEAYEAYKAGRAPTPEDFPRQ LALIKELVDLLGFTRLEVPGYEADDVLATLAKKAEKEGYEVRILTADRDLYQLVSDRVAVLHPEGHLITPEWLWEKYGLRPEQWVDFRALVGDPSD NLPGVKGIGEKTALKLLKEWGSLENLLKNLDRVKPENVREKIKAHLEDLRLSLELSRVRTDLPLEVDLAQGREPDREGLRAFLERLEFGSLLHEFG LLE

<51;PRT/1;Escherichia coli>

VISYDNYVTILDEETLKAWIAKLEKAPVFAFDTETDSLDNISANLVGLSFAIEPGVAAYIPVAHDYLDAPDQISRERALELLKPLLEDEKALKVGQ NLKYDRGILANYGIELRGIAFDTMLESYILNSVAGRHDMDSLAERWLKHKTITFEEIAGKGKNQLTFNQIALEEAGRYAAEDADVTLQLHLKMWPD LQKH

<52;PRT/1;Bacillus circulans>

APDTSVSNKQNFSTDVIYQIFTDRFSDGNPANNPTGAAFDGTCTNLRLYCGGDWQGIINKINDGYLTGMGVTAIWISQPVENIYSIINYSGVNNTA
YHGYWARDFKKTNPAYGTIADFQNLIAAAHAKNIKVIIDFAPNHTSPASSDQPSFAENGRLYDNGTLLGGYTNDTQNLFHHNGGTDFSTTENGIYK
NLYDLADLNHNNSTVDVYLKDAIKMWLDLGIDGIRMDAVKHMPFGWQKSFMAAVNNYKPVFTFGEWFLGVNEVSPENHKFANESGMSLLDFRFAQK
VRQVFRDNTDNMYGLKAMLEGSAADYAQVDDQVTFIDNHDMERFHASNANRRKLEQALAFTLTSRGVPAIYYGTEQYMSGGTDPDNRARIPSFSTS
TTAYQVIQKLAPLRKCNPAIAYGSTQERWINNDVLIYERKFGSNVAVVAVNRNLNAPASISGLVTSLPQGSYNDVLGGLLNGNTLSVGSGGAASNF
TLAAGGTAVWQYTAATATPTIGHVGPMMAKPGVTITIDGRGFGSSKGTVYFGTTAVSGADITSWEDTQIKVKIPAVAGGNYNIKVANAAGTASNVY
DNFEVLSGDQVSVRFVVNNATTALGQNVYLTGSVSELGNWDPAKAIGPMYNQVVYQYPNWYYDVSVPAGKTIEFKFLKKQGSTVTWEGGSNHTFTA
PSSGTATINVNWQP

<53;PRT/1;Bordetella pertussis>

MQQSHQAGYANAADRESGIPAAVLDGIKAVAKEKNATLMFRLVNPHSTSLIAEGVATKGLGVHAKSSDWGLQAGYIPVNPNLSKLFGRAPEVIARA DNDVNSSLAHGHTAVDLTLSKERLDYLRQAGLVTGMADGVVASNHAGYEQFEFRVKETSDGRYAVQYRRKGGDDFEAVKVIGNAAGIPLTADIDMF

AIMPHLSNFRDSARSSVTSGDSVTDYLARTRRAASEATGGLDRERIDLLWKIARAGARSAVGTEARRQFRYDGDMNIGVITDFELEVRNALNRRAH AVGAQDVVQHGTEQNNPFPEADEKIFVVSATGESQMLTRGQLKEYIGQQRGEGYVFYENRAYGVAGKSLFDDGLGAAPGVPSGRSKFSPDVLETVP ASPGLRRPSLGAVER

<54;PRT/1;Bacillus amyloliquefaciens>

AQSVPYGVSQIKAPALHSQGYTGSNVKVAVIDSGIDSSHPDLKVAGGASMVPSETNPFQDNNSHGTHVAGTVAALNNSIGVLGVAPSASLYAVKVL GADGSGQYSWIINGIEWAIANNMDVINMSLGGPSGSAALKAAVDKAVASGVVVVAAAGNEGTSGSSSTVGYPGKYPSVIAVGAVDSSNQRASFSSV GPELDVMAPGVSIQSTLPGNKYGAYNGTSMASPHVAGAAALILSKHPNWTNTQVRSSLENTTTKLGDSFYYGKGLINVQAAAQ

<55;prt/1;Bacillus subtilis>

AAEHNPVVMVHGIG GASFNFAGIKSYLVSQGWSRDKLYAVDFWDKTGTNYNNGPVLSRFVQKVLDETGAKKV DIVAHSMGGANTLYYIKNLDGGNKVANVVTLGGANRLTTGKALPGTDPNQKILYTSIY SSADMIVMNYLSRLDGARNVQIHGVGHIGLLYSSQVNSLIKEGLNGGGQNTN

<56; DNA; Homo sapiens.

<57; DNA; Bacillus circulans>

GCGCCGGATACCTCGGTATCCAACAAGCAAAATTTCAGCACCGACGTCATCTATCAAATTTTCACCGACAGGTTTTCGGACGGCAATCCCGCCAAC TACCTGACCGGGATGGGCGTTACCGCCATCTGGATCTCCCAGCCGGTCGAAAACATCTACAGCATCATCAATTATTCCGGCGTAAACAACACGGCC TATCACGGCTACTGGGCCCGGGACTTCAAGAAGACGAATCCGGCCTACGGCACGATTGCGGACTTCCAGAACCTGATCGCCGCCGCGCATGCAAAA GGCACGCTGCTCGGGGGATACACGAACGATACGCAGAACCTGTTCCACCATAACGGCGGCACGGACTTTTCCACGACCGAAAACGGCATCTACAAA AACCTGTACGATCTCGCCGACCTGAACCATAACAACAGCACCGTGGACGTCTACTTGAAGGACGCGATCAAAATGTGGCTGGACCTCGGCATCGAC GGCATCCGCATGGATGCGGTGAAGCATATGCCGTTCGGCTGGCAGAAGAGCTTTATGGCTGCCGTCAACAACTATAAGCCGGTCTTTACCTTCGGC GAATGGTTCCTGGGCGTAAATGAAGTGAGCCCGGAAAACCATAAGTTTGCCAACGAATCCGGCATGAGCCTGCTTGATTTCCGTTTTGCCCAAAAG GTGCGGCAGGTGTTCCGGGACAACACCGACAATATGTACGGCCTGAAGGCGATGCTGGAGGGCTCCGCAGCCGATTACGCCCAGGTGGATGACCAG ACGACCGCCTATCAGGTCATTCAAAAGCTGGCGCCGCTGCGCAAGTGCAACCCGGCCATCGCCTACGGATCGACGCAGGAGCGCTGGATCAACAAC GACGTGCTCATTTATGAGCGCAAATTCGGCAGCAACGTTGCCGTCGTTGCCGTCAACCGCAATTTAAACGCGCCGGCTTCCATTTCGGGACTTGTC ACTTCCCTGCCGCAAGGCAGCTACAACGACGTCCTTGGCGGCCCTTCTGAACGGCAACACGTTATCGGTAGGCTCCGGCGGGGCCGCCTCCAATTTC ACGCTTGCGGCCGGCGCGCGCGGTGTGGCAGTACACCGCGGCTACGGCGACCGCCGACCATCGGGCCATGGCCGATGATGGCCAAGCCGGGCGACAACTTCGAGGTATTGTCCGGAGACCAGGTCAGCGTCCGCTTCGTGGTCAACAACGCGACGACGGCCCTTGGGCAAAATGTGTACCTGACGGGC AGTGTCAGCGAGCTGGGGAACTGGGACCCGGCAAAAGCAATCGGGCCGATGTACAATCAGGTCGTTTACCAATATCCGAACTGGTATTATGACGTCCCGTCCAGCGCACCACTTAACGTGAATTGGCAGCCA

<58;DNA;Bordetella pertussis>

<59; DNA; Bacillus amylolique faciens>

GCGCAGTCCGTGCCTTACGGCGTATCACAAATTAAAGCCCCTGCTCTGCACTCTCAAGGCTACACTGGATCAAATGTTAAAGTAGCGGTTATCGAC
AGCGGTATCGATTCTTCTCATCCTGATTTAAAGGTAGCAGGCGGAGCCAGCATGGTTCCTTCTGAAACAAATCCTTTCCAAGACAACACTCTCAC
GGAACTCACGTTGCCGGCACAGTTGCGGCTCTTAATAACTCAATCGGTGTATTAGGCGTTGCGCCAAGCGCATCACTTTACGCTGTAAAAGTTCTC
GGTGCTGACGGTTCCGGCCAATACAGCTGGATCATTAACGGAATCGAGTGGGCGATCGCAAACAATATGGACGTTATTAACATGAGCCTCGGCGGA
CCTTCTGGTTCTGCTGCTTTAAAAAGCGGCAGTTGATAAAAGCCGTTGCATCCGGCGTCGTAGTCGTTGCGGCAGCCGGTAACGAAGGCACCTTCCGGC
AGCTCAAGCACAGTGGGCTACCCTGGTAAATACCCTTCTGTCATTGCAGTAGGCGCTGTTGACAGCAACCAAAGAGCATCTTTCTCAAGCGTA
GGACCTGAGCTTGATGTCATGGCACCTGGCGTATCTATCCAAAGCACCGCTTCCTGGAAACAAATACGGGGCGTACAACGGTACGTCAATGGCATCT
CCGCACGTTGCCGGAGCGGCTGCTTTGATTCTTTCTAAGCACCCCGAACTGGACAAACACTCAAGTCCGCAGCAGTTTAGAAAACACCCACTACAAAA
CTTGGTGATTCTTTCTACTATGGAAAAAGGGCTGATCAACGTACAGGCGCGCAGCTCAG

<60; DNA; Thermus thermophilus >

<61;DNA;Escherichia coli>